

## INTERNATIONAL SEARCH REPORT

	(PCI Afficie	18 and Rules 43 and 4	4)			
Applicant's or agent's file reference 91641	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month/year)		(Earliest) Priority Date (day/month/year)			
PCT/AU 99/00306	23 April 1999		23 April 1998			
Applicant COMMONWEALTH SCIE	ENTIFIC AND IND	USTRIAL RESEAI	RCH ORGANISATION			
This international search report has been preparticle 18. A copy is being transmitted to the		al Searching Authority	and is transmitted to the applicant according to			
This international search report consists of a	total of 5 sheets.					
X It is also accompanied by a copy of each prior art document cited in this report.						
1. Basis of the report						
a. With regard to the language, the which it was filed, unless otherw			s of the international application in the language in			
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).						
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
contained in the international application in written form.						
filed together with the int	filed together with the international application in computer readable form.					
furnished subsequently to this Authority in written form.						
furnished subsequently to	this Authority in comp	uter readable form.	•			
		tten sequence listing do	es not go beyond the disclosure in the international			
application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished						
2. Certain claims were foun	d unsearchable (See Bo	ox I).				
3. Unity of invention is lack	ing (See Box II).					
4. With regard to the title,	the text is approved a	s submitted by the appl	icant.			
x the text has been established by this Authority to read as follows:						
ASSAY FOR METHYLATION IN THE GST-PI GENE						
5. With regard to the abstract,	the text is approved as	submitted by the applic	ant			
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III.  The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. The figure of the drawings to be published with the abstract is Figure No.						
	as suggested by the ap	plicant.	X None of the figures			
because the applicant failed to suggest a figure						
	because this figure bet	ter characterizes the inv	rention			

	Internation	nal application No.			
			PCT/AU 9	99/00306	
A.	CLASSIFICATION OF SUBJECT MATTER				
Int Cl <sup>6</sup> :	C12Q 1/68, 1/48; C12N 15/54				
According to	International Patent Classification (IPC) or to both	national classification and	IPC		
В.	FIELDS SEARCHED				
	imentation searched (classification system followed by concerning database below)	classification symbols)			
	searched other than minimum documentation to the exic database below)	tent that such documents are in	ncluded in the	fields searched	
Electronic data (see attached	base consulted during the international search (name o	f data base and, where practice	able, search te	rms used)	
C.	DOCUMENTS CONSIDERED TO BE RELEVANT	r			
Category*	Citation of document, with indication, where ap	propriate, of the relevant pa	issages	Relevant to claim No.	
X,Y	X,Y AU 31341/95 A (THE JOHN HOPKINS UNIVERSITY SCHOOL OF MEDICINE) 1 February 1996 See page 6, lines 19-21 in particular.			1-46	
X,Y  LEE, W.H. et al. (1997) CG Island Methylation Changes Near the GSTPI Gene in Prostatic Carcinoma Cells Detected Using the Polymerase Chain Reaction: A New Prostate Biomarker, CANCER EPIDEMIOLOGY, BIOMARKERS AND PREVENTION Volume 6, 443-50.  See whole document				1-46	
X	Further documents are listed in the continuation of Box C	X See patent	family anno	⇒x	
"A" document come in the in th	al categories of cited documents:  ment defining the general state of the art which is onsidered to be of particular relevance or application or patent but published on or after ternational filing date ment which may throw doubts on priority claim(s) ich is cited to establish the publication date of er citation or other special reason (as specified) ment referring to an oral disclosure, use, ition or other means ment published prior to the international filing but later than the priority date claimed	priority date and not in counderstand the principle document of particular rebe considered novel or coinventive step when the document of particular rebe considered to involve combined with one or mocombination being obvio	ter document published after the international filing date or circity date and not in conflict with the application but cited to inderstand the principle or theory underlying the invention ocument of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an aventive step when the document is taken alone ocument of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is considered to involve an inventive step when the document is ombined with one or more other such documents, such ombination being obvious to a person skilled in the art ocument member of the same patent family		
Date of the act	tual completion of the international search	Date of mailing of the intern 25 MAY	ational search	report	
Name and mai AUSTRALIAN PO BOX 200 WODEN ACT AUSTRALIA	ling address of the ISA/AU N PATENT OFFICE I 2606	Authorized officer  DAVID HENNESSY			

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<b></b>	PCT/AU 99/00306				
C (Continuat	tion). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
P,X	BROOKS, J.D. et al. (1998) CG Island Methylation Changes Near the GSTPI Gene in Prostatic Intraepithelial Neoplasia, CANCER EPIDEMIOLOGY, BIOMARKERS AND PREVENTION, Volume 7531-6.  See whole document.	1-46			
X,Y	JHAVERI. M.S. et al. (1998) Methylation-mediated regulation of the glutathione S-transferase PI gene in human breast cancer cells, GENE, Volumn 210(1), 1-7 27 March 1998. See 'materials and methods' in particular	1-46			
P,X,Y	ESTELLER, M. et al. (1998) Inactivation of Glutathione S-Transferase PI Gene by Promoter Hypermethylation in Human Neoplasia, CANCER RESEARCH, Volume 58, 4515-8. See whole document.	1-46			
Y	LEE, W.H. et al. (1994) Cytidine methylation of regulatory sequences near the Π-class glutathione S-transferase gene accompanies human prostatic carcinogenesis, PROC. NATL. ACAD. SCI. Vol. 91, 11733-7. See whole document	1-46			
T	MILLER, D.S. et al. (1999) Detailed methylation analysis of the glutathione S-transferase Π (GSTPI) gene in prostate cancer, ONCOGENE, Vol. 18(6), 1313-24				

## INTERNATIONAL SEAR REPORT Information on patent family members



International application No. PCT/AU 99/00306

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Do	cument Cited in Searc Report	h	Patent Family Member				
AU	31341/95	WO	96/02674	EP	771362	JP	10504187
		CA	2195396	US	5552277		

END OF ANNEX

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT



International Application No. PCT/ AU 99/00306

## Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No: B

Electronic database consulted during the International Search

1. DERWENT; FILE WPAT, JPAT.

SS 1: C12Q/IC (32597)

(WPAT (24538)

JAPIO (8059)

SS 2: GLUTATHIUONE (5W) TRANSFERASE? (0)

**WPAT** 

JAPIO (0)

SS 3: TRANSFERASE (2672)

WPAT (2211)

**JAPIO (461)** 

SS4: GLUTATHIONE AND TRANSFERASE (155)

WPAT (128)

**JAPIO (27)** 

SS 5: GLUTATHIONE (5W) TRANSFERASE (152)

WPAT

**JAPIO (27)** 

SS 6: 1 AND 5 (22)

**WPAT (20)** 

JAPIO (2)

2. STN; FILE MEDLINE, CA.

FILE 'MEDLINE'

E GLUTATHIONE/CT

E GLUTATHIONE TRANSFERASE

L1 10995 S GLUTATHIONE AND TRANSFERASE

L2 85 S L1 AND METHYLATION

L3 31 S L2 AND (ASSAY OR DIAGNOS? OR TEST?)

FILE 'CA'

L4 28 S L2 AND (ASSAY OR DIAGNOS? OR TEST?)

L5 0 S L4 NOT L3